Date: 22-03-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.46%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.59%**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd Cross Road

Asst. Executive Engineer
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[illegible] Zone
[illegible] Bangalore - 92

NEWZEN CONSULTANT Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/KL- WMM3

Date: 25-03-2021

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Developments of roads and drains at Kogilu Layout Main and Cross Roads in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: G. Venkategowda, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.45**	95-100
26.50	**---**	-
22.40	**73.60**	60-80
11.20	**52.10**	40-60
4.75	**35.95**	25-40
2.36	**22.30**	15-30
0.600	**19.25**	8-22
0.075	**3.70**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 3rd Cross Road

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Date: 25-03-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.65%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.94 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42%**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : OM 3rd Cross Road

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Yelahanka Zone
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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/KL- WMM4

Date: 27-03-2021

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Developments of roads and drains at Kogilu Layout Main and Cross Roads in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: G. Venkategowda, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**96.35**	95-100
26.50	**---**	-
22.40	**72.10**	60-80
11.20	**56.25**	40-60
4.75	**33.70**	25-40
2.36	**25.15**	15-30
0.600	**18.90**	8-22
0.075	**3.45**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Mathru Layout 1st Cross Road

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Yelahanka Zone
BBMP, Bangalore - 92

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Date: 27-03-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.16 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.73 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Mathru Layout 1st Cross Road

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EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/KL- WMM5

Date: 30-03-2021

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Developments of roads and drains at Kogilu Layout Main and Cross Roads in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: G. Venkategowda, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.25**	95-100
26.50	**---**	-
22.40	**71.60**	60-80
11.20	**55.10**	40-60
4.75	**33.95**	25-40
2.36	**24.50**	15-30
0.600	**17.25**	8-22
0.075	**3.65**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Bande Road Ch:240.00m to 270.00m

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Date: 30-03-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.54 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.76 %**	Not more than 35.0 %
3.	Water absorption, %	**0.43%**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Bande Road Ch:240.00m to 270.00m

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Date: 01-04-2021

NC/QC/YPD/2020-21/KL- WMM6

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Developments of roads and drains at Kogilu Layout Main and Cross Roads in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: G. Venkategowda, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	96.45	95-100
26.50	---	-
22.40	74.15	60-80
11.20	51.20	40-60
4.75	34.65	25-40
2.36	22.40	15-30
0.600	17.85	8-22
0.075	4.10	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Cross Road Ch:90.00m to 120.00m

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Yelahanka Zone
BBMP, Bangalore - 92

Date: 01-04-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.16 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.73 %**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Cross Road Ch:90.00m to 120.00m.

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EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/KL- WMM7

Date: 03-04-2021

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Developments of roads and drains at Kogilu Layout Main and Cross Roads in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: G. Venkategowda, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**96.25**	95-100
26.50	**---**	-
22.40	**70.05**	60-80
11.20	**56.70**	40-60
4.75	**32.15**	25-40
2.36	**24.55**	15-30
0.600	**20.10**	8-22
0.075	**3.85**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd Cross Road Ch:146.50m to 176.50m

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Date: 03-04-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.35 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.62 %**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd Cross Road Ch:146.50m to 176.50m.

Asst. Executive Engineer
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Yelahanka Zone
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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/KL-BD1

Date: 07-04-2021

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.
{Project*: Developments of roads and drains at Kogilu Layout Main and Cross Roads in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: G. Venkategowda, Bangalore.

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**52.60^0 C**	Min. 45
2.	Ductility Value at 25^0 C	**107.90 cm**	40
3.	Flash point	**247^0 C**	Minimum 220^0 C
4.	Softening point	**51.20^0 C**	Min. 47

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Cross Road

Page No. 1/1,

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT Bangalore

NC/QC/YPD/2020-21/KL-CD1

Date: 07-04-2021

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Dense Graded Bituminous Macadam.
{Project*: Developments of roads and drains at Kogilu Layout Main and Cross Roads in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: G. Venkategowda, Bangalore.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**23.09%**	Not more than 27.00 % for DBM
2.	Combined Flakiness and Elongation index, %	**26.74%**	Not more than 35.0 %
3.	Water absorption, %	**0.42%**	Not more than 2.0 %
4.	Specific gravity	**2.62**	-------
5.	Soundness	**6.84 %**	Max. 12 % in Sodium Sulphate

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 3rd Cross Road

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EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/KL-DBM1 **Date: 15-04-2021**

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: Developments of roads and drains at Kogilu Layout Main and Cross Roads in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: G. Venkategowda, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**96.25**	90-100
19.0	**87.15**	71-95
13.20	**73.40**	56-80
4.75	**48.65**	38-54
2.36	**36.05**	28-42
0.300	**17.90**	7-21
0.075	**6.45**	2-8

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site Bande Road Ch:270.00m to 300.00m.

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29/3/21

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/KL-DS1 Date: 15-04-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Developments of roads and drains at Kogilu Layout Main and Cross Roads in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: G. Venkategowda, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1246**	900
2	Marshall Flow at 60°C, mm.	**3.34**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Bande Road Ch:270.00m to 300.00m.

Asst. Executive Engineer
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EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/KL-DBM2

Date: 16-04-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Developments of roads and drains at Kogilu Layout Main and Cross Roads in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: G. Venkategowda, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**96.45**	90-100
19.0	**82.10**	71-95
13.20	**74.60**	56-80
4.75	**48.10**	38-54
2.36	**34.80**	28-42
0.300	**18.25**	7-21
0.075	**6.90**	2-8

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Mathru Layout Ch:30.00m to 60.00m

Asst. Executive Engineer
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Yelahanka Zone

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/KL-DS2 Date: 16-04-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Developments of roads and drains at Kogilu Layout Main and Cross Roads in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: G. Venkategowda, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1256**	900
2	Marshall Flow at 60°C, mm.	**3.44**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Mathru Layout Ch:30.00m to 60.00m

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NC/QC/YPD/2020-21/KL-DBM3 Date: 17-04-2021

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: Developments of roads and drains at Kogilu Layout Main and Cross Roads in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: G. Venkategowda, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.54 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**97.15**	90-100
19.0	**84.25**	71-95
13.20	**73.40**	56-80
4.75	**42.70**	38-54
2.36	**37.05**	28-42
0.300	**19.45**	7-21
0.075	**6.85**	2-8

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : 2nd Cross Road Ch:56.50m to 86.50m.

Asst. Executive Engineer
Project Division
Yelahanka Zone
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EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/KL-DS3

Date: 17-04-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Developments of roads and drains at Kogilu Layout Main and Cross Roads in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: G. Venkategowda, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1260**	900
2	Marshall Flow at 60°C, mm.	**3.52**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd Cross Road Ch:56.50m to 86.50m.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/KL-DBM4 **Date: 17-04-2021**

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Developments of roads and drains at Kogilu Layout Main and Cross Roads in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: G. Venkategowda, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**95.25**	90-100
19.0	**83.10**	71-95
13.20	**71.65**	56-80
4.75	**45.30**	38-54
2.36	**38.95**	28-42
0.300	**17.10**	7-21
0.075	**5.45**	2-8

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 3rd Cross Road Ch:30.00m to 60.00m

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Yelahanka Zone
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